

AMENDMENTS TO THE SPECIFICATION:

Please amend the paragraph beginning at page 7, line 29, as follows:

Further details and features will be apparent from the following description ~~herein after~~
with reference to the ~~drawing~~ drawings in which:

Figure 1 shows (top) a data-portion of a flow graph of a patient during NREM2;
(middle) a high vertical line indicating the end of inspiration, a low
line indicating the ~~begin~~ start of inspiration;
(bottom) the first derivation in time of the flow-graph on the basis
of which the end and the beginning of inspiration may be detected;

Figure 2 shows (top) a data portion of a flow graph of a patient during NREM2;
(middle) the last breathing cycle of the data sequence above
selected as reference relation for the breathing pattern;
(bottom) correlation between the data portion above (reference
relation) and the flow pattern in the midst;

Figure 3 shows (top) a data portion of a flow graph of a patient during NREM2;
(bottom) the average difference of the maxima of correlation from
the value 1;

Figure 4 shows (top) a data portion of the flow graph of a patient during REM;
(bottom) average difference of the maxima of correlation from the
value 1;

Figure 5 shows (top) a data portion of the flow graph of a patient;
(middle) associated CPAP-pressure graph;
(bottom) variance of the CPAP signal per breathing cycle; and

Figure 6 is a schematic view of a device according to an embodiment of the present invention.

Please add the following new paragraph at page 8, between lines 23 and 24, as follows:

Figure 6 is a schematic view of a device 10 constructed according to an embodiment of the present invention. Device 10 can be used to carry out the processing described below in relation to Figures 1-5. Device 10 includes a flow generator 15, a patient interface 20, e.g., a breathing mask, and a breathing gas conduit 25 to deliver pressurized gas from the flow generator 15 to the patient interface 20. Flow generator 15 typically includes a detector 30 to produce a signal relating to breathing gas pressure (e.g., via a pressure sensor) and/or breathing gas flow (e.g., via a flow sensor or meter). Flow generator 15 includes a processor 40, e.g., in the form of a CPU, to receive input signals from the detector 30. Processor 40 is adapted to generate a reference-relation on the basis of the detector signal to adjust the breathing gas pressure on the basis of a correlation-relation between the reference-relation and a prevailing breathing pattern of the patient.